



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vriginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/904,627	07/16/2001	Ullas Gargi	10006286-1	2970
7590 11/16/2004			EXAMINER	
HEWLETT-PACKARD COMPANY			WANG, JIN CHENG	
Intellectual Property Administration P.O. Box 272400 Fort Collins, CO 80527-2400			ART UNIT	PAPER NUMBER
			2672	,
	Commission and the Commission of the Commission		DATE-MAILED:-11/16/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)				
Advisory Action	09/904,627	GARGI ET AL.				
Trainedly Months	Examiner	Art Unit				
	Jin-Cheng Wang	2672				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
THE REPLY FILED 07 September 2004 FAILS TO PLA Therefore, further action by the applicant is required to a final rejection under 37 CFR 1.113 may only be either: (1 condition for allowance; (2) a timely filed Notice of Appears Examination (RCE) in compliance with 37 CFR 1.114.	void abandonment of this appliced in the control of	cation. A proper reply to a chiphaces the application in				
PERIOD FOR RE	PLY [check either a) or b)]					
a) The period for reply expires 3 months from the mailing date of b) The period for reply expires on: (1) the mailing date of this Adv event, however, will the statutory period for reply expire later the ONLY-CHECK-THIS BOX WHEN THE FIRST REPLY-WAS	isory Action, or (2) the date set forth in the an SIX MONTHS from the mailing date of	the final rejection.				
706.07(f).  Extensions of time may be obtained under 37 CFR 1.136(a). The dathave been filed is the date for purposes of determining the period of extens 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened (b) above, if checked. Any reply received by the Office later than three moleanned patent term adjustment. See 37 CFR 1.704(b).	sion and the corresponding amount of the I statutory period for reply originally set in t	fee. The appropriate extension fee under the final Office action; or (2) as set forth in				
1. A Notice of Appeal was filed on <u>07 September 2004</u> . Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.						
2. The proposed amendment(s) will not be entered b	ecause:					
(a) they raise new issues that would require further consideration and/or search (see NOTE below);						
(b) they raise the issue of new matter (see Note below);						
(c) they are not deemed to place the application issues for appeal; and/or	in better form for appeal by mat	erially reducing or simplifying the				
(d) they present additional claims without canceling a corresponding number of finally rejected claims.						
NOTE:						
3. Applicant's reply has overcome the following rejection(s):						
4. Newly proposed or amended claim(s) would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).						
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.						
The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.						
For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.						
The status of the claim(s) is (or will be) as follows:						
Claim(s) allowed:						
Claim(s) objected to:						
Claim(s) rejected: <u>1-20</u> .						
Claim(s) withdrawn from consideration:		<i>.</i> -				
B. ☐ The drawing correction filed on is a) ☐ approved or b) ☐ disapproved by the Examiner.						
9. Note the attached Information Disclosure Statement(s)( PTO-1449) Paper No(s)						
10. Other:						
•						

Continuation of 5. does NOT place the application in condition for allowance because:

- 1) Applicant argues in essence that the Hirata patent is not directed to redisplaying a portion of displayed images using a refined distance metric. In response, Hirata teaches in column 7 that the step of image matching based on boundary is applied to the results of image matching based on region and the step of grouping and re-ordering based on similarity among result candidates is applied to the results of the image matching based on boundary. Moreover, in column 14 or in the claims 37-39, Hirata clearly teaches displaying the second set of images grouped by the clusters on the display and REDISPLAYING RE-ORDERED SECOND SET of IMAGES ON THE DISPLAY and therefore at least two steps of displaying is involved in the process.
- 2) Moreover, Hirata teaches in column 6 a similary matching among the candidate images resulting from the region-based and boundary-based matching. Not only users can select regions for the image matching or querying, but also users can specify other parameters such as the threshold values to determine how the images are categoried into groups and this categorization is used to REDUCE the number of images to be displayed.
- 3) Hirata discloses in column 7 that the number of results (the number of the input images for the step (3) as taught in Hirata) to be processed in the step of image matching based on boundary and the step of grouping and re-ordering based on similarity among result candidate images can be CONTROLLED BY THE USER, and such a selection further limits the number of the candidate images to be re-displayed in step (3).
- 4) The displaying and re-displaying of the resulting candidate images are interative because users can select the number of the candidate images to be processed and the threshold values for the clustering of the candidate images, thereby determining how the portion of candidate images (which is less than the candidate images from step (1) and (2) as taught in column 7 of Hirata) are arranged on the display. By selecting the number of the candidate images in the step of grouping and re-ordering based on similarity among the result candidates and the selection of the representative image in each cluster, the resulting images being redisplayed is less than the set of the resulting candidates from steps (1) and (2). Hirata thus teaches redisplaying a portion of displayed images selected in the previous step of the boundary image matching using a mutual similarity measure. Users' selection of the candidate images from the steps (1) and (2) produces a refined set of the candidate images for the step (3). Finally, it is noted that the mutual similarity as calculated in Hirata's column 9, lines 1-9 meets the claim limitation of a distance measure.
- 5) From the teaching of column 6-7 and 14, it is concluded that Hirata at least discloses two separate steps of displaying the candidate images wherein a lesser number of the clustered candidate images can be re-ordered and re-displayed. Hirata further teaches interactive user selection for selecting a subset of images to be re-ordered and re-displayed based on the mutual similarity.

BALLINEI RAZAW

- -vaniner

TECHNOLOGY CENTER 2000